

PROJECTED WORKS.—Advertisements have been issued for tenders by 9th October, for the erection of a pair of semi-detached villas; by 12th, for the erection of a new Independent Chapel at Haverstock-hill, Hampstead; and by 3rd, for a supply of 1,000 tons of Guernsey lumps for St. Luke's, Chelsea.

PERPETUAL MOTION BY A VACUUM.—A correspondent who signs himself "Dædalus" writes,—"Sir: It is to be regretted that your correspondent, Mr. Barrett, has contented himself with merely asserting his belief in the possibility of a perpetual motion, by obtaining and keeping a vacuum. If he would favour your readers with his views, their truth or fallacy would appear, and he might be awarded the praise of having discovered some useful application of atmospheric pressure as a working power; which, in his opinion, scientific men have hitherto singularly overlooked. His statement, as made in your journal of the 16th instant, is too vague to convey an adequate idea of his theory and practice. That he should divulge this is the more important inasmuch as he conceives he has already been outstepped by another party abroad, and I may mention that a party in Ireland has patented and made considerable progress in the construction of an engine to be worked on some system of a perpetual vacuum, as I am informed."

WHITWORTH'S STREET-SWEEPING MACHINE.—The inventor, Mr. Whitworth, in a "general summary of the advantages machine-sweeping possesses over hand-sweeping," thus contrasts the two systems:—"By hand-sweeping, the dirt has to be gathered together by one operation, and the carts loaded by another; the machines load and sweep at one operation: in hand-sweeping, the dirt gathered is liable to be splashed over the street and over the passengers; by the machines, it is at once carried away: heaps of dirt are sometimes left by hand-sweepers at the side of the roads, and become a source of danger, as well as of annoyance, to carriages and foot-passengers; by machine-sweeping this evil is entirely obviated: hand-sweeping obliges the carts to stand in the streets, while being loaded, causing loss of time and obstruction of the traffic; the machines load as they sweep, passing along at the rate of a common cart: the cleanliness of a town cannot be greatly increased by hand-sweepers without great increase of cost; the economy of machine-sweeping increases in proportion to the cleanliness produced: hand sweepers cannot easily and cheaply be increased, according to the exigencies of cleansing; an extra number of machines can be kept ready for emergencies, with little trouble or cost: hand-cleaning has but little tendency to improve and consolidate the road; machine-sweeping tends powerfully to remove ridges and improve the surface: the continuance of hand-sweeping tends to perpetuate a degraded and ill-paid class of labourers, whom the introduction of the machine will elevate, or supersede by better paid and better conducted men, who must be employed to manage the machines. All these advantages are obtained, together with greatly-increased cleanliness."

ANOTHER MARY OF GUELDRS.—The Edinburgh antiquaries have been thrown into a state of excitement by the discovery of another female skeleton in a leaden coffin under the site of Trinity College Church. Professor Simpson is likely, it appears, to decide the question of identity even at this rather late inquest, having pointed out marked evidence of cerebral disease. Professor Goodair, too, has since, it is said, traced out the evidence of congenital malformation in the head; and the two professors are likely to be thus able to prove the total incapability of the ancient tenant of this mouldering tabernacle to display such character or conduct as that ascribed to Queen Mary of Guelders.

BRADFORD MECHANICS' INSTITUTE.—The annual distribution of prizes was awarded on Tuesday week in the Athenæum of the Institute; the Rev. Dr. Acworth, president, in the chair; when a series of books were distributed as prizes to successful competitors in drawing as well as other branches of ordinary school education. The formation of classes for the study of chemistry and natural philosophy in general was resolved on.

FIRING SHELLS BY ELECTRICITY.—Experiments were some time since announced from America, which were said to have gone far to establish the practicability of this novel operation, and to teach us that there is no end to the unlooked-for and unlikely adaptations of even now it might be thought pretty well exhausted, or at least familiarised discoveries in science, such as that for which a Franklin has already done so much honour to the land of which he was a denizen. Renewed experiments by the inventor, Lieut. Moor, of the United States' Navy, have been gone into, which, according to an American authority, have removed all doubts. The loaded shell is prepared with the end of a coil of wire attached to it, which, on being discharged from the mortar, it carries out with it like the string of a kite. The near end of the coil is free to be taken to a galvanic battery at any moment during the flight. It is a species of electro-magnetic telegraph applied to the flying shell, which it overtakes and explodes at any moment with the rapidity of thought.

THE SPIRE OF ST. MARY'S CHURCH, SNETTISHAM, NORFOLK.—A correspondent informs us that the lofty stone spire of this church, which, on account of its towering eminence, is used by mariners as a sea mark, being 105 feet in height, and together with the church reaching an altitude of 177 feet, has recently undergone a careful restoration, and the upper part to the extent of several feet has been entirely reset, and an iron cross and weather-cock raised on its summit. Crosses have also been added over the gables of each of the spire windows. These designs were furnished by Mr. H. L. S. Le Strange, and the mason's work has been executed by Mr. William Brown, of Lynn. To raise the scaffolding Mr. Brown availed himself of the openings formed by the upper windows of the spire, which are about 30 feet below the summit: through these he passed, at right angles, boards of such a length as to leave the ends projecting—these were secured at the centre and formed a cross: from the projecting ends he carried a gallery round with a hand rail—the whole forming a light and secure stage, of simple materials, and at a small expense.

CAXTON MONUMENT.—Sir: There are several reasons for the interest falling off on the above subject; one of which is the not determining on a proper place for it, as the former situation is wanted for the Westminster improvements, and cannot be kept vacant for an uncertainty. This being the case, I would suggest the site of the three houses in Port's Corner, as, from old associations, being every way applicable, as well as being ornamental to the neighbourhood, and consistent with the alterations about to be carried on near there also; and I have no doubt this would meet with the approbation of the dean and chapter of Westminster. My reason for addressing you is because you seem to be nearly the only one that takes any interest in the matter. M. P. VITRUVIUS.

TENDERS

For six houses to be built at Lewisham, for Messrs. Ald and Quirk. Messrs. W. Smith and Sons, Architects, Greenwich.

Hill	£3,875
Howard	5,143
Harnden	5,148
Rider	5,130
Goodwin	4,890
Paul	4,877
Cooper and Davis	4,875
Taylor	4,797
Coleman	4,771

For new Warehouse at Camden-town Glass Works, for Messrs. Chance, Brothers, and Co. Mr. W. Hambrey, architect.

Thompson	£4,400
Lawrence and Son	4,500
Curtis	4,504
Tyng	4,648
Jay	4,582
Locke and Newman	4,456
Grimsdell	4,393
Barton	4,191
Glen	3,984
Pratt	3,860

For the erection of Alms House, Ac., Wellesbourne-square, Whitechapel, for Mr. John Edmunds, Mr. Moffatt, architect.

Jay	£2,015 0 0
Glen	2,499 0 0
Brudger and Co.	2,465 0 0
Myers	2,503 0 0
Patrick	2,443 0 0
Smith	2,328 0 0
Howard	2,413 0 0
Goodwin	2,157 0 0
H. W. Cooper	1,947 0 0

TO CORRESPONDENTS.

Correspondents must enclose an address.

ADVERTISEMENTS.

CAMDEN TOWN.—R. FULKES'S

RANGES AND STOVE MANUFACTORY, 11, Port-street, Epping Green, 3d. per inch. Ranges from 3d. to 10s. 6d. per inch. Ranges from 3d. to 10s. 6d. per inch. Ranges from 3d. to 10s. 6d. per inch.

OLD-ESTABLISHED WHOLESALE IRONMONGERY

JOHN GRICE most respectfully solicits the attention of Architects, Builders, and Contractors, to his Stock of Black and Bright Bars, Sheet Iron, &c., &c.

All articles made to the previous and warranted, and delivered free of expense within the limits of London. Bell-making in any style, done to order, 3d. per bell.

TO ARCHITECTS, BUILDERS, &c.

R. HENLY and Co., WHOLESALE

RANGES, STOVES, &c., 120, Blackfriars-road, and 11, Upper-street, Borough.

Range of Kitchen Ranges with Black Barley and Oven.

4 ft. 6 in. 4 ft. 6 in. 4 ft. 6 in. 4 ft. 6 in.

Henry's Patent Improved, with Black Barley and Wrought Iron

4 ft. 6 in. 4 ft. 6 in. 4 ft. 6 in. 4 ft. 6 in.

Best Kettle Stove, 4 ft. 6 in. and 4 ft. 6 in.

Best Kettle Stove, 4 ft. 6 in. and 4 ft. 6 in.

Manufacturers of WOLFARTON PATENT HEATED

STOVES, a certain class for KITCHEN CHIMNEYS, and effecting

a great saving of fuel. To be sent in one day.

Orders from the Country, accompanied with a remittance of re-

ference, will meet with prompt attention.

TO BUILDERS AND CARPENTERS.—

Elipside Stove, double backs 3d. per inch. Ranges, 4 ft. 6 in.

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